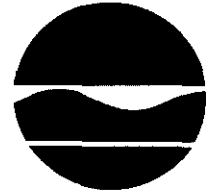


EFB
Received 5/25/04

I 015090-001

New York State Department of Environmental Conservation
Division of Fish, Wildlife and Marine Resources
Wildlife Pathology Unit
108 Game Farm Road, Delmar, NY 12054



Erin Crotty
Commissioner

M E M O R A N D U M

TO: Ken Roblee
FROM: Ward Stone
SUBJECT: American Kestrel (WPU Case #04-05-23)
DATE: May 17, 2004

Personal privacy information

This is a very interesting and important toxicant case.

History: The kestrel was found dead in the backyard of [REDACTED] [REDACTED] [REDACTED] Lexington Avenue, Buffalo (Erie County) New York on February 2, 2004. The bird was received by the Wildlife Pathology Unit on February 5, 2004.

Findings: The kestrel was an adult male in fair-to-good flesh and with a gross weight of 107 grams. No fractures or traumatic injuries were found, but hemorrhage extended over the ventral breast and down the subcutaneous tissue of the right leg.

Hemorrhaging was also present in the right lung. The stomach contained a small amount of sand-like grit. A few of these small granules were present in the small intestine. The spleen was normal-appearing as were other organs, except that little blood was in the heart and kidneys.

The leading presumptive cause of death was an anticoagulant rodenticide.

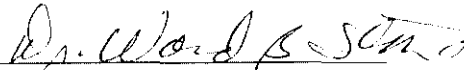
Tissues were taken for toxicology and West Nile. West Nile was negative by PCR. Alimentary canal tissue was tested by the USDA's NVSL for avian influenza and it was negative.

Toxicology (See attached laboratory report(s) from the Illinois Department of Agriculture, Bureau of Animal Disease Laboratory, Centralia, Illinois): The anticoagulant screen showed the anticoagulant Brodifacoum at .29 ppm (wet weight) in the kestrel's liver.

Diagnosis: Death due to hemorrhaging caused by the anticoagulant rodenticide Brodifacoum.

ISB recd
5/27/04

Comments: We need to do more monitoring for the anticoagulants that are in the food-chain, as additional warnings and/or restrictions are needed on Brodifacoum.


Wildlife Pathologist

WBS:rd

cc: J. Mastrolta (USEPA)
G. McLaughlin
G. Reinhardt
L. Skinner
Toxicant Binder

Diagnostic findings may not be used for publication without the pathologist's knowledge and consent.

National Veterinary Services Laboratories
1800 Dayton Road Ames, Iowa 50010
Phone (515) 663-7266 Fax (515) 663-7397
Laboratory Test Report Page 1 of 1

FEDERAL RELAY SERVICE (Voice/TTY/ASCII/Spanish)
1-800-877-8339

Date Received: 2/27/2004 Accession: 299962

Submitted By: Referral Number:
STONE, WARD / WILDLIFE PATHOLOGIST Retain Number:
WILDLIFE PATHOLOGY UNIT Date Collected: 2/02/2004
NYS DEPT.OF ENVIRONMENTAL CONSERVATION Collected By: NYSDEC
108 GAME FARM RD
DELMAR, NY 12054
Fax: 5184783035

Location of Animals (Cty/St):
ERIE NY

Owner:

Condition on Arrival:
IP
Purpose: Surveillance

This is not a billable case

NVSL ID	Sample ID	Animal ID	Species	Specimen	Disease
954733	040523	AMERICAN KESTREL	AVIAN	TISSUE	AI
	VI	Virus Isolation			

No avian influenza virus was isolated when
embryonating chicken eggs were
inoculated with a suspension of each specimen.

Distribution: /s/ Randall L. Levings, DVM Director
Submitter National Veterinary Services Laboratories
3/09/2004

Accession No: 326698

TOXICOLOGY

DR WARD STONE
NEW YORK WILDLIFE
108 GAME FARM ROAD
DELMAR NY 12054Date Submitted: 3/8/2004
Date Reported: 3/31/2004


PH: 518-4783032 FAX: 518 - 4783035

Sample ID	Family:	Species:	Breed:	Sex:	Age:	Wt:
04-05-23	Wild Bird	American				
Notes:		<i>Red-tail</i>				

LABORATORY FINDINGS
TOXICOLOGY RESULTS:04-05-23 LIVER ANTICOAGULANT SCREEN: BRODIFACOUM - .29 ppm
ALL OTHER ANTICOAGULANTS - NONE DETECTED

THE FOLLOWING TOXINS ARE INCLUDED IN THE ANTICOAGULANT SCREEN

FUMARIN	DIPHACINONE
RACUMIN	PINDONE
WARFARIN	VALONE
COUMACHLOR	CHLOROPHACINONE
DIFENACOUM	BROMADIOLONE
BRODIFACOUM	DIFETHIALONE


James R. Stedelin, Chemist
RAC 3/31/2004